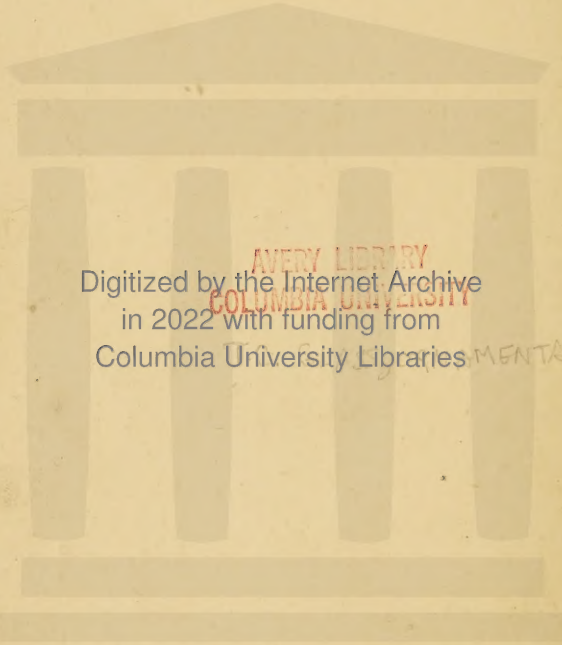


BENJAMIN H. SHOEMAKER,
FRENCH PLATE GLASS DEPOT,
PHILADELPHIA.



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FRENCH PLATE GLASS DEPOT

WINDOW
GLASS

PLATE
GLASS

FRENCH, ENGLISH AND AMERICAN WINDOW GLASS

211 BENJAMIN H. SHOEMAKER 203



BENJAMIN H. SHOEMAKER,

Importer, Dealer, and Sole Agent in Philadelphia

FOR THE SALE OF

FRENCH THICK WHITE PLATE GLASS,

French Looking Glass Plates,

FRENCH WHITE SKY-LIGHT GLASS,

FRENCH AND ENGLISH

WINDOW AND PICTURE GLASS,

German Looking Glass Plates,

COLORÉD GLASS, AMERICAN WINDOW GLASS, ETC., ETC.,

Nos. 205, 207, 209, and 211 N. Fourth St., Phila.

JANUARY, 1875.

TERMS

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GLASS.

NOTHING is known with certainty respecting the discovery of the art of making glass.

In the ruins of Nineveh, glass vases, bottles, and other articles have been found, but there is no indication of its having been used for windows. Glass beads, and other ornaments of the same material, have been discovered with Egyptian mummies more than three thousand years old; and hieroglyphics are still preserved, supposed to be as old as the sojourn of the Israelites in Egypt, representing glass-blowers at work much after the fashion of the present day.

In England, as late as the twelfth century, houses provided with glass windows were regarded as truly magnificent, and not to be indulged in by any excepting the rich and noble of the kingdom.

In 1688, Abraham Thevart introduced into Paris the method of making large plates, by casting the glass instead of blowing; he thus produced heavy plates, measuring 84 inches long by 50 inches wide, while those previously made had not reached near one-third this size, and were necessarily very thin.

Soon after Thevart's discovery, works were established at St. Gobain, France, where the business became very successful, and has continued so to the present time—the product of this establishment now ranking the first in quality in the *world*.

The skillful management of these and other works since established in France and Belgium, produces a very large proportion of first-quality glass for exportation.

England is the largest customer for FRENCH Plate Glass, after which in order comes the United States.

The first glass works established in the United States were commenced at Jamestown, Virginia, about the year 1610—the completion of which, however, was interrupted by the Indian massacre in the year 1622.

The next glass factory of which we have any precise account was built in the town of Temple, N. H., in 1780, only to be destroyed by fire the following year.

In 1800 the effort was again made, and since then the business has prospered to some extent.

Many works, principally in New Jersey, in Western New York, and around Pittsburgh, Pa., have been established and now produce large quantities of glass.

MIRRORS.

Mention is first distinctly made of glass mirrors prepared from glass plates coated with lead, by the Franciscan Monk John Peckham, in his "*Perspective Communis*," which appeared in 1279.

The art of covering plates of glass with tin foil was discovered and carried on at Venice in the sixteenth century, and was introduced from thence into France in 1665, where it was much extended by Abraham Thevart's discovery of the mode of casting plates, in 1688, and since brought to its present state of perfection.

The operation of coating glass with mercury is attended with serious detriment to the health of the workmen from the vapors of the mercury; it also requires very considerable time for completion, and is subject to frequent miscarriage.

The process for silvering mirrors proposed by Drayton and tested by Faraday is free from all these defects.

The silvering fluid is obtained by mixing ammonia with nitrate of silver, and adding to it an alcoholic solution of oil of cassia. When this mixture is poured upon the glass, and the reducing liquid* added thereto, a film of brilliant metallic silver is precipitated and attaches itself firmly to the surface of the glass.

To protect the silver, it is then varnished or painted with shellac and red lead, making the "red back plate" so well known and so thoroughly disliked by the trade.

Notwithstanding the apparent advantages of this process, it has not been carried on successfully by the manufacturers of mirrors, owing to the difficulty of obtaining a perfectly clear, unspotted surface of any considerable extent.

IRREGULAR SHAPES.

All panes of glass which are not rectangular are charged at the full size of the squares required to cut them, and fractional parts of inches are charged as full inches.

* Solution of oil of cloves in alcohol.

No. of Lights per Box of 50 feet.

6×8	150	12×16	38	15×34	14	20×40	9	26×52	5	34×56	4
7×9	115	17	35	36	13	42	9	54	5	58	4
8×10	90	18	33	38	13	44	8	56	5	60	3
11	82	20	30	40	12	46	8	58	5	36×38	5
12	75	22	27	44	11	48	8	60	5	40	5
13	69	24	25	46	10	50	7	28×30	9	42	5
14	64	26	23	48	10	52	7	32	8	44	5
15	60	28	21	50	10	54	7	34	8	48	4
16	56	30	20	16×18	25	56	6	36	7	50	4
17	53	32	19	20	23	58	6	38	7	52	4
18	50	34	17	22	20	60	6	40	6	54	4
9×10	80	36	17	24	19	22×24	14	42	6	56	4
11	73	38	16	26	17	26	13	44	6	58	3
12	67	40	15	28	16	28	12	46	6	60	3
13	62	42	14	30	15	30	11	48	5	38×40	5
14	57	44	14	32	14	32	10	50	5	42	5
15	53	46	13	34	13	34	10	52	5	44	4
16	50	48	12	36	12	36	9	54	5	46	4
17	47	50	12	38	12	38	9	56	4	48	4
18	44	13×14	40	40	11	40	8	58	4	50	4
20	40	15	37	42	11	42	8	60	4	52	4
22	36	16	35	44	10	44	8	30×32	8	54	4
24	33	18	31	46	10	46	7	34	7	56	3
10×12	60	20	28	48	9	48	7	36	7	58	3
13	56	22	25	50	9	50	7	38	6	60	3
14	52	24	23	52	9	52	6	40	6	40×42	4
15	48	26	21	54	8	54	6	42	6	44	4
16	45	28	20	56	8	56	6	44	5	46	4
17	42	30	18	58	8	58	6	46	5	48	4
18	40	32	17	60	7	60	5	48	5	50	4
20	36	34	16	18×20	20	24×26	12	50	5	52	4
22	33	36	15	22	18	28	11	52	5	54	3
24	30	38	15	24	17	30	10	54	4	56	3
26	28	14×16	32	26	15	32	9	56	4	58	3
28	26	18	29	28	14	34	9	58	4	60	3
30	24	20	26	30	13	36	8	60	4	62	3
32	23	22	24	32	13	38	8	32×34	7	64	3
34	21	24	22	34	12	40	8	36	6	66	3
36	20	26	20	36	11	42	7	38	6	42×44	4
38	19	28	18	38	11	44	7	40	6	46	4
40	18	30	17	40	10	46	7	42	5	48	4
11×13	51	32	16	42	10	48	6	44	5	50	3
14	47	34	15	44	9	50	6	46	5	54	3
15	44	36	14	46	9	52	6	48	5	56	3
16	41	38	14	48	8	54	5	50	4	58	3
17	39	40	13	50	8	56	5	52	4	60	3
18	37	42	12	52	8	58	5	54	4	62	3
20	33	44	11	54	7	60	5	56	4	64	3
22	30	46	11	56	7	26×28	10	58	4	66	3
24	27	48	11	58	7	30	9	60	4	44×46	4
26	25	50	10	60	7	32	9	34×36	6	48	3
28	23	15×16	30	20×22	16	34	8	38	6	50	3
30	22	18	27	24	15	36	8	40	5	52	3
32	21	20	24	26	14	38	7	42	5	54	3
34	19	22	22	28	13	40	7	44	5	56	3
36	18	24	20	30	12	42	7	46	5	58	3
12×12	50	26	18	32	11	44	6	48	4	60	3
13	46	28	17	34	11	46	6	50	4	62	3
14	43	30	16	36	10	48	6	52	4	64	3
15	40	32	15	38	9	50	6	54	4	66	2

PRICES FOR GENUINE THICK WHITE FRENCH POLISHED PLATES.

SIZES.	12	14	16	18	20	22	24	26	28	30	32	34	36
24	\$1.30	\$1.50	\$1.75	\$1.95	\$2.65	\$2.95	\$3.20	\$3.80	\$6.50	\$7.50	\$8.55	\$9.65	\$11.00
26	1.40	1.75	1.90	2.60	2.90	3.15	3.45	6.10	7.50	9.00	9.10	10.20	11.35
28	1.50	1.0	2.50	2.80	3.10	3.40	3.75	6.50	7.00	9.00	9.10	10.20	11.35
30	1.75	1.90	2.65	3.00	3.35	3.65	4.00	6.95	7.35	9.00	9.10	10.20	11.35
32	1.75	2.50	2.85	3.20	3.55	3.90	6.40	6.95	7.35	9.00	9.10	10.20	11.35
34	1.85	2.65	3.00	3.40	3.80	6.25	6.80	7.35	7.80	9.00	9.10	10.20	11.35
36	1.95	2.80	3.20	3.60	4.00	6.60	7.20	7.80	8.40	9.00	9.10	10.20	11.35
38	2.55	2.95	3.35	3.80	6.35	7.00	7.60	8.25	8.85	9.00	9.10	10.20	11.35
40	2.85	3.10	3.55	4.00	6.65	7.35	8.00	8.65	9.35	10.00	10.10	11.20	12.35
42	2.80	3.25	3.75	6.30	7.00	7.70	8.40	9.10	9.80	10.50	10.60	11.70	12.85
44	2.95	3.45	3.90	6.60	7.35	8.10	8.80	9.55	10.25	11.00	11.10	12.20	13.35
46	3.05	3.60	6.15	6.90	7.65	8.40	9.20	9.95	10.75	11.50	11.60	12.70	13.85
48	3.20	3.75	6.40	7.20	8.00	8.80	9.60	10.40	11.20	12.00	12.10	13.20	14.35
50	3.35	3.90	6.65	7.50	8.35	9.15	10.00	10.85	11.65	12.50	12.60	13.70	14.85
52	3.50	6.10	6.90	7.80	8.65	9.55	10.40	11.25	12.00	12.80	12.90	14.00	15.15
54	3.60	6.30	7.20	8.10	9.00	9.90	10.80	11.70	12.50	13.40	13.50	14.60	15.75
56	3.75	6.55	7.45	8.40	9.35	10.25	11.20	12.10	12.90	13.80	13.90	15.00	16.15
58	3.90	6.75	7.75	8.70	9.75	10.65	11.60	12.50	13.40	14.30	14.40	15.50	16.65
60	4.00	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	15.10	16.20	17.35
62	6.20	7.25	8.25	9.30	10.35	11.35	12.40	13.40	14.40	15.40	15.50	16.60	17.75
64	7.45	8.45	8.55	9.60	10.65	11.65	12.70	13.70	14.70	15.70	15.80	16.90	18.05
66	6.60	7.70	8.80	9.90	11.00	12.10	13.20	14.30	15.40	16.50	16.60	17.70	18.85
68	6.80	7.95	9.05	10.20	11.35	12.50	13.65	14.80	15.95	17.10	17.20	18.35	19.50
70	7.00	8.15	9.35	10.50	11.65	12.85	14.00	15.15	16.30	17.45	17.55	18.70	19.85
72	7.20	8.40	9.60	10.80	12.00	13.20	14.40	15.60	16.80	18.00	18.10	19.30	20.50
74	7.40	8.65	9.90	11.10	12.35	13.60	14.85	16.10	17.35	18.60	18.70	19.95	21.20
76	7.60	8.85	10.15	11.40	12.70	14.00	15.30	16.60	17.90	19.20	19.30	20.60	21.90
78	7.80	9.10	10.40	11.70	13.00	14.30	15.60	16.90	18.20	19.50	19.60	20.90	22.20
80	8.00	9.35	10.70	12.00	13.35	14.70	16.00	17.35	18.65	20.00	20.10	21.45	22.80
82	8.20	9.55	10.95	12.30	13.70	15.10	16.45	17.80	19.15	20.50	20.60	21.95	23.30

DISCOUNT.

ALL FRENCH POLISHED PLATE SUBJECT TO

SIZES.	12	14	16	18	20	22	24	26	28	30	32	34	36
84	\$8.40	\$9.85	\$11.20	\$18.00	\$20.00	\$21.50	\$24.00	\$26.00	\$28.00	\$30.00	\$31.50	\$34.00	\$36.00
86	8.60	10.05	11.70	18.50	20.50	22.00	24.50	26.50	28.50	30.50	32.50	34.50	37.50
88	8.80	10.25	11.75	18.75	21.00	22.50	25.00	27.00	29.00	31.00	33.00	35.50	37.50
90	9.00	10.50	12.00	19.25	21.25	23.00	25.50	27.50	30.00	32.00	34.00	36.00	38.50
92	13.00	15.25	17.50	19.50	21.75	24.00	26.00	28.00	30.50	32.50	35.00	37.00	39.00
94	13.25	15.50	17.75	20.00	22.25	24.50	26.50	29.00	31.50	34.00	36.50	38.50	41.00
96	13.75	16.25	18.25	20.50	22.75	25.00	27.50	29.50	32.50	35.00	37.50	39.50	42.00
98	14.00	16.25	18.50	21.00	23.25	25.50	28.00	30.00	33.00	35.50	38.00	40.00	42.00
100	16.00	18.50	21.00	24.00	26.50	29.00	32.00	34.50	37.00	39.50	42.00	45.00	48.00
102	16.25	18.75	21.50	24.25	27.00	29.50	32.50	35.00	37.50	40.50	43.00	46.50	49.50
104	16.50	19.25	22.00	24.75	27.50	30.25	33.50	36.50	39.00	42.00	45.00	47.50	50.50
106	16.75	19.50	22.50	25.25	28.00	30.75	34.00	37.00	40.00	43.00	45.50	48.50	51.50
108	17.25	20.00	22.75	25.75	28.50	31.50	34.50	37.00	40.50	43.50	46.50	49.50	52.50
110	17.50	20.25	23.25	26.25	29.00	32.00	35.00	38.00	41.50	44.50	47.50	50.50	53.00
112	17.75	20.75	23.75	26.50	29.50	32.50	35.50	38.50	42.00	45.00	48.00	51.00	54.00
114	18.00	21.00	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00	51.00	54.00
116	18.50	21.50	24.50	27.50	30.50	33.75	37.00	40.00	43.50	46.50	49.00	52.00	55.00
118	18.75	21.75	25.00	28.00	31.25	34.25	37.50	40.50	44.50	47.50	50.00	53.00	56.00
120	19.00	22.25	25.25	28.50	31.75	34.75	38.00	41.00	45.00	48.00	50.50	54.00	57.00
122	19.25	22.50	25.75	29.00	32.25	35.00	38.50	42.00	46.00	49.00	51.50	54.50	57.50
124	19.75	23.00	26.25	29.50	32.75	36.00	39.50	42.50	46.50	49.50	52.50	55.50	58.50
126	20.00	23.25	26.50	30.00	33.25	36.50	40.00	43.00	47.00	50.00	53.00	56.00	59.00
128	20.25	23.75	27.00	30.50	33.75	37.25	40.50	44.00	48.00	51.50	54.00	57.50	61.00
130	20.50	24.00	27.50	31.00	34.25	37.75	41.00	44.50	48.50	52.00	55.00	58.50	62.00
132	21.00	24.50	27.75	31.25	34.75	38.50	42.00	45.00	49.00	52.50	55.50	59.00	62.50
134	21.25	24.75	28.25	31.75	35.25	39.00	42.50	46.00	49.50	53.00	56.50	60.00	63.50
136	21.50	25.00	28.75	32.25	36.00	39.50	43.00	46.50	50.00	54.00	57.50	61.00	64.50
138	21.75	25.50	29.25	32.75	36.50	40.00	43.50	47.50	51.00	54.50	58.00	61.50	65.00
140	22.25	25.75	29.50	33.25	37.00	40.50	44.00	48.00	51.50	55.00	58.50	62.00	65.50
142	22.50	26.25	30.00	33.75	37.50	41.00	45.00	48.50	52.50	56.00	60.00	63.50	67.00
144	22.75	26.50	30.50	34.25	38.00	42.00	46.00	49.50	53.00	57.00	61.50	65.00	68.50
146	23.00	27.00	31.00	34.75	38.50	42.50	46.50	50.00	54.00	58.00	62.50	66.50	70.00
148	23.50	27.25	31.25	35.25	39.00	43.00	47.00	51.00	54.50	58.50	62.50	66.50	70.50

PRICES FOR GENUINE THICK WHITE FRENCH POLISHED PLATES.

SIZES.	36	40	42	44	46	48	50	52	54	56	58	60	62
40	\$19.00	\$19.05											
42	19.00	19.75	\$21.30										
44	19.75	20.75	22.80	\$23.00									
46	20.75	21.75	23.00	25.00									
48	21.50	22.75	23.75	25.00	26.00	\$27.00							
50	22.50	23.75	24.75	26.00	27.00	28.50	\$30.00						
52	23.25	24.50	25.75	27.00	28.00	29.50	31.00	\$32.00					
54	24.25	25.50	26.75	28.00	29.50	30.50	32.00	33.00	\$35.00				
56	25.00	26.50	27.75	29.00	30.50	32.00	33.00	34.00	36.00	\$37.00			
58	26.00	27.50	28.75	30.00	31.50	33.00	34.00	35.00	37.00	38.00	\$40.00		
60	27.00	28.25	29.75	31.00	32.50	34.00	36.00	37.00	38.00	40.00	41.00	\$43.00	
62	27.75	29.25	30.75	32.00	33.75	35.00	37.00	38.00	40.00	42.00	44.00	45.00	47.00
64	28.75	30.25	31.75	33.00	35.00	36.00	38.00	39.00	41.00	43.00	45.00	47.00	48.00
66	29.75	31.25	32.75	34.50	37.00	37.50	39.00	40.00	42.00	44.00	46.00	48.00	50.00
68	30.50	32.00	33.75	35.50	37.00	38.50	40.00	42.00	44.00	46.00	48.00	50.00	51.00
70	31.50	33.00	34.75	36.50	38.00	40.00	41.00	43.00	44.00	46.00	48.00	50.00	53.00
72	32.25	34.00	35.75	37.50	39.00	41.00	43.00	45.00	47.00	49.00	51.00	52.00	54.00
74	33.25	35.00	36.75	38.00	40.00	42.00	44.00	45.00	48.00	50.00	52.00	53.00	56.00
76	34.00	36.00	37.75	39.50	41.25	43.00	45.00	48.00	50.00	52.00	53.00	55.00	57.00
78	35.00	37.00	38.75	40.50	42.50	44.00	46.00	48.00	51.00	52.00	55.00	57.00	59.00
80	36.00	38.00	39.75	41.50	43.50	45.50	47.00	50.00	52.00	55.00	56.00	58.00	60.00
82	36.75	39.00	40.75	42.50	44.50	46.50	48.00	51.00	54.00	57.00	58.00	60.00	61.00
84	37.75	40.00	41.75	43.00	45.00	47.00	50.00	52.00	55.00	57.00	59.00	61.00	63.00
86	38.50	41.00	42.75	44.00	46.75	49.00	51.00	53.00	55.00	58.00	60.00	62.00	64.00
88	39.50	42.00	43.75	45.00	47.75	50.00	52.00	54.00	57.00	58.00	62.00	64.00	66.00
90	40.50	42.50	44.75	46.00	49.00	51.00	53.00	55.00	59.00	61.00	63.00	65.00	68.00
92	41.25	43.50	45.75	48.00	50.00	52.00	54.00	56.00	60.00	62.00	65.00	67.00	70.00
94	42.25	44.50	46.75	49.00	51.00	53.00	56.00	58.00	61.00	63.00	66.00	68.00	71.00
96	43.00	45.50	47.75	50.00	52.00	55.00	57.00	60.00	63.00	65.00	67.00	70.00	73.00
98	44.00	46.50	49.00	51.00	53.00	56.00	58.00	60.00	63.00	65.00	67.00	70.00	74.00
100	50.00	53.00	55.50	58.00	61.00	64.00	66.00	69.00	71.00	74.00	77.00	79.00	82.00
102	51.00	54.00	56.50	59.00	62.00	65.00	67.00	70.00	73.00	75.00	78.00	81.00	83.00

SIZES.	38	40	42	44	46	48	50	52	54	56	58	60	62
104	\$52.00	\$55.00	\$57.50	\$60.50	\$63.00	60	\$69.00	\$71.	\$74.00	\$77.00	\$80.00	\$82.00	\$85.00
106	53.00	56.00	59.00	62.50	65.00	60	70.00	73.00	76.00	78.00	81.00	84.00	87.00
108	54.00	57.00	60.00	63.00	66.00	60	71.00	74.00	77.00	80.00	83.00	86.00	89.00
110	55.00	58.00	61.00	64.00	67.00	70.00	73.00	76.00	78.00	81.00	84.00	87.00	90.00
112	56.00	59.00	62.00	65.00	68.00	71.00	74.00	77.00	80.00	83.00	86.00	89.00	92.00
114	57.00	60.00	63.00	66.00	69.00	72.00	75.00	78.00	81.00	84.00	87.00	90.00	93.00
116	58.00	61.00	64.50	67.50	71.00	74.00	77.00	80.00	83.00	86.00	89.00	92.00	95.00
118	59.00	62.50	65.50	68.50	72.00	75.00	78.00	81.00	84.00	87.00	90.00	93.00	96.00
120	60.00	63.50	66.50	69.50	73.00	76.00	79.00	82.00	85.00	88.00	91.00	94.00	97.00
122	61.00	64.50	67.50	71.00	74.00	77.00	80.00	83.00	86.00	89.00	92.00	95.00	98.00
124	62.00	65.50	68.50	72.00	75.00	78.00	81.00	84.00	87.00	90.00	93.00	96.00	99.00
126	63.00	66.50	70.00	73.00	76.00	79.00	82.00	85.00	88.00	91.00	94.00	97.00	100.00
128	64.00	67.50	71.00	74.50	78.00	81.00	84.00	87.00	90.00	93.00	96.00	99.00	102.00
130	65.00	68.50	72.00	75.50	79.00	82.00	85.00	88.00	91.00	94.00	97.00	100.00	103.00
132	66.00	69.50	73.00	76.50	80.00	83.00	86.00	89.00	92.00	95.00	98.00	101.00	104.00
134	67.00	70.50	74.50	78.00	81.00	84.00	87.00	90.00	93.00	96.00	99.00	102.00	105.00
136	68.00	72.00	75.50	79.00	82.00	85.00	88.00	91.00	94.00	97.00	100.00	103.00	106.00
138	69.00	73.00	76.50	80.00	83.00	86.00	89.00	92.00	95.00	98.00	101.00	104.00	107.00
140	70.00	74.00	77.50	81.00	84.00	87.00	90.00	93.00	96.00	99.00	102.00	105.00	108.00
142	71.00	75.00	79.00	82.00	85.00	88.00	91.00	94.00	97.00	100.00	103.00	106.00	109.00
144	72.00	76.00	80.00	84.00	87.00	90.00	93.00	96.00	99.00	102.00	105.00	108.00	111.00
146	73.00	77.00	81.00	85.00	88.00	91.00	94.00	97.00	100.00	103.00	106.00	109.00	112.00
148	74.00	78.00	82.00	86.00	89.00	92.00	95.00	98.00	101.00	104.00	107.00	110.00	113.00
150	75.00	79.00	83.00	87.00	90.00	93.00	96.00	99.00	102.00	105.00	108.00	111.00	114.00
152	93.00	97.00	102.00	107.00	112.00	116.00	121.00	126.00	131.00	136.00	141.00	146.00	151.00
154	94.00	98.00	104.00	108.00	113.00	118.00	123.00	128.00	133.00	138.00	143.00	148.00	153.00
156	95.00	100.00	105.00	110.00	115.00	120.00	125.00	130.00	135.00	140.00	145.00	150.00	155.00
158	96.00	101.00	106.00	111.00	116.00	121.00	126.00	131.00	136.00	141.00	146.00	151.00	156.00
160	97.00	102.00	107.00	112.00	117.00	122.00	127.00	132.00	137.00	142.00	147.00	152.00	157.00
162	98.00	104.00	109.00	114.00	119.00	124.00	129.00	134.00	139.00	144.00	149.00	154.00	159.00
164	100.00	105.00	110.00	115.00	120.00	125.00	130.00	135.00	140.00	145.00	150.00	155.00	160.00
166	101.00	106.00	111.00	116.00	121.00	126.00	131.00	136.00	141.00	146.00	151.00	156.00	161.00
168	102.00	107.00	112.00	117.00	122.00	127.00	132.00	137.00	142.00	147.00	152.00	157.00	162.00
170	103.00	109.00	114.00	120.00	125.00	130.00	135.00	140.00	145.00	150.00	155.00	160.00	165.00

PRICES FOR GENUINE THICK WHITE FRENCH POLISHED PLATES.

Sizes.	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96
64	\$48.																
66	50.	\$52.															
68	51.	53.	\$55.														
70	53.	55.	56.	\$58.													
72	54.	56.	58.	60.	\$61.												
74	56.	58.	59.	61.	63.	\$65.											
76	57.	59.	61.	63.	65.	68.											
78	59.	61.	63.	64.	66.	68.	\$76.	\$80.									
80	60.	62.	64.	66.	68.	78.	80.	82.	\$85.								
82	62.	64.	66.	68.	78.	80.	82.	84.	87.	\$89.							
84	63.	65.	68.	78.	80.	82.	84.	86.	89.	91.	\$93.						
86	65.	68.	77.	79.	82.	84.	86.	88.	91.	93.	95.	\$98.					
88	67.	77.	79.	81.	84.	86.	88.	90.	93.	95.	97.	100.	\$102.				
90	68.	78.	81.	83.	86.	88.	90.	92.	95.	97.	100.	102.	105.	\$107.			
92	78.	80.	83.	85.	87.	90.	92.	94.	97.	100.	102.	104.	107.	109.	\$112.		
94	82.	84.	86.	87.	89.	92.	94.	96.	99.	101.	104.	106.	109.	111.	114.	\$117.	
96	81.	83.	85.	88.	91.	93.	96.	98.	101.	103.	106.	109.	111.	114.	117.	119.	\$122.
98	83.	85.	88.	90.	93.	96.	98.	103.	105.	107.	110.	111.	114.	116.	119.	122.	124.
100	84.	87.	90.	93.	96.	98.	100.	103.	105.	107.	110.	111.	114.	116.	119.	122.	124.
102	86.	89.	92.	94.	97.	100.	102.	105.	108.	111.	114.	116.	118.	121.	124.	127.	130.
104	88.	91.	93.	96.	99.	102.	104.	107.	110.	112.	115.	118.	120.	123.	126.	129.	132.
106	90.	92.	95.	98.	101.	104.	106.	109.	112.	115.	118.	120.	123.	126.	129.	132.	134.
108	91.	94.	97.	100.	103.	106.	108.	110.	114.	117.	120.	123.	126.	128.	131.	134.	138.
110	93.	96.	99.	102.	105.	108.	110.	113.	116.	119.	122.	125.	128.	131.	134.	136.	140.
112	95.	98.	101.	104.	106.	109.	112.	115.	118.	121.	124.	127.	130.	133.	136.	139.	142.
114	96.	99.	102.	105.	108.	111.	114.	117.	120.	123.	126.	129.	132.	135.	138.	141.	144.
116	98.	101.	104.	107.	110.	113.	116.	119.	122.	126.	129.	132.	135.	138.	142.	144.	148.
118	100.	103.	106.	109.	112.	115.	118.	121.	125.	128.	131.	134.	137.	140.	144.	146.	150.
120	101.	104.	108.	111.	114.	117.	120.	124.	127.	130.	133.	136.	139.	143.	146.	149.	152.
122	103.	106.	109.	112.	115.	119.	122.	126.	129.	132.	135.	138.	142.	145.	148.	151.	157.
124	105.	108.	111.	115.	118.	121.	124.	128.	131.	134.	138.	141.	144.	147.	151.	156.	160.
126	106.	109.	113.	117.	120.	123.	126.	130.	133.	136.	140.	143.	146.	150.	155.	159.	163.
128	108.	111.	115.	118.	122.	125.	128.	132.	135.	139.	142.	145.	149.	152.	158.	162.	166.

Sizes,	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96
130	\$110.	\$113.	\$117.	\$120.	\$124.	\$127.	\$130.	\$134.	\$137.	\$141.	\$144.	\$148.	\$151.	\$157.	\$161.	\$165.	\$169.
132	111.	115.	118.	122.	125.	129.	132.	136.	139.	143.	146.	150.	156.	161.	166.	168.	172.
134	113.	117.	120.	124.	127.	131.	134.	138.	141.	145.	149.	154.	158.	163.	167.	171.	175.
136	115.	118.	122.	126.	129.	133.	136.	140.	144.	147.	152.	156.	160.	165.	169.	173.	177.
138	117.	120.	124.	128.	131.	135.	138.	142.	146.	149.	155.	159.	164.	168.	172.	176.	180.
140	118.	122.	126.	129.	133.	137.	140.	144.	148.	151.	158.	162.	167.	171.	175.	179.	183.
142	120.	124.	128.	131.	135.	139.	142.	146.	150.	156.	160.	165.	169.	174.	178.	182.	186.
144	122.	125.	129.	133.	137.	141.	144.	148.	152.	158.	163.	168.	172.	177.	181.	185.	189.
146	123.	127.	131.	135.	139.	143.	146.	150.	154.	160.	165.	170.	174.	179.	183.	187.	191.
148	125.	129.	133.	137.	141.	145.	148.	152.	156.	162.	167.	172.	176.	181.	185.	189.	193.
150	127.	131.	135.	139.	143.	147.	150.	154.	158.	165.	170.	175.	179.	184.	188.	192.	196.
152	130.	134.	138.	142.	146.	150.	154.	158.	162.	169.	174.	179.	183.	188.	192.	196.	200.
154	131.	135.	139.	143.	147.	151.	155.	159.	163.	170.	175.	180.	184.	189.	193.	197.	201.
156	133.	137.	141.	145.	149.	153.	157.	161.	165.	172.	177.	182.	186.	191.	195.	199.	203.
158	135.	139.	143.	147.	151.	155.	159.	163.	167.	174.	179.	184.	188.	193.	197.	201.	205.
160	137.	141.	145.	149.	153.	157.	161.	165.	169.	176.	181.	186.	190.	195.	199.	203.	207.
162	139.	143.	147.	151.	155.	159.	163.	167.	171.	178.	183.	188.	192.	197.	201.	205.	209.
164	141.	145.	149.	153.	157.	161.	165.	169.	173.	180.	185.	190.	194.	199.	203.	207.	211.
166	143.	147.	151.	155.	159.	163.	167.	171.	175.	182.	187.	192.	196.	201.	205.	209.	213.
168	145.	149.	153.	157.	161.	165.	169.	173.	177.	184.	189.	194.	198.	203.	207.	211.	215.
170	147.	151.	155.	159.	163.	167.	171.	175.	179.	186.	191.	196.	200.	205.	209.	213.	217.

ADDITIONAL SIZES.

Sizes,	12	14	16	18	20	22	24	26	28	30	32	34	36
150	\$23.75	\$27.75	\$31.75	\$35.75	\$39.50	\$43.50	\$47.50	\$52.00	\$55.50	\$59.50	\$63.50	\$67.50	\$71.50
152	29.00	34.00	39.00	44.00	48.50	53.50	58.00	63.00	68.00	73.00	78.00	83.00	88.00
154	29.50	34.50	39.50	44.50	49.00	54.00	59.00	64.00	69.00	74.00	79.00	84.00	89.00
156	30.00	35.00	40.00	45.00	50.00	55.00	60.00	65.00	70.00	75.00	80.00	85.00	90.00
158	30.25	35.50	40.50	45.50	50.50	55.50	60.50	65.50	71.00	76.00	81.00	86.00	91.00
160	30.75	36.00	41.00	46.00	51.00	56.00	61.50	66.50	72.00	77.00	82.00	87.00	92.00
162	31.00	36.50	41.50	46.50	52.00	57.00	62.00	67.50	73.00	78.00	83.00	88.00	93.00
164	31.50	37.00	42.00	47.00	52.50	57.50	63.00	68.00	74.00	79.00	84.00	89.00	94.00
166	31.75	37.50	42.50	47.50	53.00	58.50	63.50	69.00	75.00	80.00	85.00	90.00	95.00
168	32.25	38.00	43.00	48.50	53.50	59.00	64.50	70.00	76.00	81.00	86.00	91.00	97.00
170	32.50	38.50	43.50	49.00	54.50	60.00	65.00	71.00	77.00	82.00	87.00	92.00	98.00

PRICES FOR GENUINE WHITE FRENCH SILVERED PLATES.

SIZES.	12	14	16	18	20	22	24	26	28	30	32	34	36
24	\$2.00	\$2.60	\$3.00	\$3.35	\$3.75	\$4.10	\$4.50	\$5.65					
26	2.40	2.85	3.25	3.65	4.05	4.45	5.20	8.40	\$9.10				
28	2.60	3.05	3.50	3.90	4.35	4.75	5.60	9.00	9.70				
30	2.80	3.25	3.75	4.20	5.00	5.50	6.00	9.60	10.30	\$10.40			
32	3.00	3.50	4.00	4.50	5.35	5.85	8.85	10.20	11.00	11.80	\$11.80		
34	3.20	3.70	4.25	5.10	5.65	8.60	9.40	10.80	11.60	12.50	13.20	\$13.30	
36	3.35	3.90	4.50	5.40	6.00	9.10	9.95	10.80	12.30	13.10	14.00	14.90	\$14.90
38	3.55	4.15	5.10	5.70	8.70	9.65	10.50	11.40	12.90	13.80	14.80	15.80	16.60
40	3.75	4.35	5.30	6.00	9.20	10.10	11.20	12.00	13.60	14.50	15.50	16.50	20.00
42	3.90	4.90	5.60	8.70	9.70	10.70	11.60	12.60	13.60	14.50	15.50	16.50	20.00
44	4.10	5.50	6.00	9.15	10.10	11.20	12.10	13.20	14.20	15.20	16.20	20.00	22.00
46	4.30	5.75	6.50	9.55	10.60	11.70	12.70	13.80	14.80	16.00	20.00	21.00	25.00
48	4.50	6.00	8.85	9.95	11.10	12.20	13.30	14.40	16.00	20.00	21.00	22.00	25.00
50	5.00	6.50	9.25	10.40	11.50	12.70	13.85	15.00	17.00	22.00	24.00	25.00	27.00
52	5.20	8.40	9.60	10.80	12.00	13.20	14.40	16.00	20.00	25.00	26.00	27.00	28.00
54	5.50	8.70	9.95	11.20	12.50	13.70	14.90	17.00	21.00	24.00	25.00	28.00	29.00
56	6.00	9.05	10.30	11.60	12.90	14.20	15.50	18.00	22.00	25.00	26.00	29.00	30.00
58	6.50	9.35	10.70	12.10	13.40	14.70	16.00	20.00	23.00	27.00	28.00	30.00	31.00
60	7.00	9.70	11.10	12.50	13.80	15.20	16.50	21.00	25.00	28.00	30.00	32.00	32.00
62	7.50	10.00	11.40	12.90	14.30	15.70	22.00	23.00	26.00	29.00	31.00	32.00	35.00
64	8.00	10.30	11.80	13.30	14.80	16.20	22.50	24.00	27.00	31.00	31.00	34.00	37.00
66	8.50	10.70	12.20	13.70	15.20	21.00	23.00	25.00	28.00	33.00	34.00	36.00	39.00
68	9.00	11.00	12.60	14.10	15.70	22.00	24.00	26.00	29.00	35.00	36.00	38.00	41.00
70	9.50	11.30	12.90	14.50	16.10	22.50	25.00	30.00	32.00	39.00	42.00	45.00	50.00
72	10.00	11.60	13.30	14.90	16.60	23.00	26.00	32.00	35.00	43.00	47.00	49.00	52.00
74	10.50	11.90	14.00	15.40	20.00	27.00	29.00	34.00	39.00	45.00	49.00	52.00	55.00
76	11.00	12.30	15.00	16.00	28.00	29.00	32.00	36.00	43.00	47.00	51.00	54.00	57.00
78	11.50	12.60	16.00	17.00	30.00	32.00	34.00	37.00	45.00	49.00	52.00	55.00	58.00
80	12.00	13.00	17.00	18.00	32.00	35.00	36.00	41.00	46.00	51.00	53.00	57.00	60.00
82	12.50	14.00	18.00	24.00	34.00	36.00	39.00	44.00	48.00	52.00	55.00	58.00	63.00
84	13.00	15.00	19.00	26.00	35.00	37.00	42.00	45.00	49.00	53.00	56.00	59.00	64.00

SIZES CONTAINING 10 SQUARE FEET AND UNDER,

PREMIUM.

SIZES.	12	14	16	18	20	22	24	26	28	30	32	34	36
86	\$13.50	\$16.00	\$20.00	\$28.00	\$37.00	\$39.50	\$43.00	\$46.00	\$51.00	\$54.00	\$57.00	\$62.00	\$65.00
88	14.00	17.00	21.00	31.00	38.00	40.00	44.00	47.00	52.00	55.00	58.00	64.00	68.00
90	15.00	18.00	22.00	32.00	39.00	41.00	45.00	50.00	53.00	57.00	60.00	65.00	69.00
92	20.00	24.00	28.00	33.00	39.50	43.00	47.00	51.00	56.00	59.00	63.00	68.00	70.00
94	20.50	24.00	30.00	35.00	40.00	44.00	48.00	52.00	56.00	61.00	64.00	69.00	72.00
96	21.00	25.00	31.00	37.00	41.00	45.00	49.00	54.00	58.00	62.00	65.00	70.00	75.00
98	22.00	26.00	32.00	38.00	42.00	46.00	50.00	55.00	59.00	63.00	66.00	71.00	76.00
100	22.50	27.00	33.00	39.00	43.00	47.00	52.00	56.00	60.00	64.00	68.00	74.00	77.00
102	23.00	28.00	34.00	40.00	44.00	48.00	53.00	57.00	61.00	65.00	70.00	75.00	78.00
104	24.00	29.00	35.00	40.50	45.00	49.00	54.00	58.00	63.00	67.00	71.00	76.00	80.00
106	24.75	30.00	36.00	41.00	46.00	50.00	55.00	59.00	64.00	69.00	72.00	77.00	82.00
108	25.00	32.00	37.00	41.50	46.50	51.00	56.00	60.00	65.00	70.00	75.00	78.00	83.00
110	25.50	32.50	38.00	42.00	47.00	51.50	57.00	61.00	66.00	71.00	76.00	80.00	84.00
112	26.00	33.00	39.00	43.00	50.00	52.00	58.00	63.00	68.00	72.00	77.00	81.00	86.00
114	26.50	34.00	40.00	44.00	51.00	54.00	59.00	64.00	69.00	74.00	78.00	82.00	88.00
116	27.00	35.00	41.00	45.00	52.00	56.00	60.00	65.00	70.00	75.00	79.00	84.00	90.00
118	27.50	36.00	41.50	46.00	53.00	57.00	61.00	66.00	71.00	76.00	80.00	86.00	91.00
120	28.00	37.00	42.00	47.00	54.00	58.00	62.00	67.00	72.00	77.00	82.00	87.00	93.00
122	31.00	38.00	44.00	50.00	54.50	60.00	65.00	70.00	75.00	80.00	85.00	90.00	98.00
124	33.00	39.00	45.00	51.00	55.00	61.00	67.00	71.00	78.00	83.00	89.00	95.00	99.00
126	35.00	39.50	46.00	52.00	56.00	62.00	68.00	74.00	79.00	84.00	91.00	96.00	102.00
128	36.00	40.00	47.00	53.00	57.00	63.00	69.00	75.00	82.00	86.00	93.00	98.00	103.00
130	38.00	43.00	51.00	57.00	62.50	69.00	76.00	82.00	86.00	94.00	98.00	106.00	113.00
132	39.00	44.00	52.00	58.00	64.00	70.00	77.00	83.00	89.00	96.00	103.00	110.00	115.00
134	39.50	46.00	53.00	59.00	65.00	71.00	78.00	85.00	92.00	97.00	104.00	111.00	116.00
136	40.00	47.00	54.00	60.00	66.00	72.00	79.00	86.00	93.00	100.00	105.00	113.00	119.00
138	41.00	47.50	54.50	61.00	67.00	74.00	81.00	87.00	95.00	101.00	108.00	114.00	120.00
140	41.50	49.00	55.00	62.00	68.00	75.00	82.00	90.00	96.00	103.00	109.00	117.00	123.00
142	42.00	50.00	56.00	63.00	69.00	76.00	83.00	91.00	97.00	104.00	111.00	118.00	124.00
144	42.50	50.50	56.50	64.00	70.00	77.00	84.00	92.00	99.00	106.00	113.00	119.00	126.00
146	42.75	51.00	57.00	65.00	71.00	78.00	85.00	93.00	100.00	107.00	114.00	120.00	127.00
148	43.00	51.50	58.00	66.00	73.00	79.00	87.00	94.00	101.00	108.00	115.00	122.00	130.00
150	44.00	52.00	59.00	67.00	74.00	81.00	88.00	95.00	103.00	109.00	117.00	124.00	132.00

PRICES FOR GENUINE WHITE FRENCH SILVERED PLATES.

SIZES.	38	40	42	44	46	48	50	52	54	56	58	60
40	\$22.	\$25.	\$29.	\$31.	\$35.	\$40.	\$42.	\$47.	\$52.	\$59.	\$66.	\$74.
42	23.	27.	30.	33.	37.	41.	43.	49.	54.	61.	71.	80.
44	24.	28.	31.	35.	38.	42.	45.	51.	57.	63.	77.	83.
46	26.	29.	32.	36.	40.	44.	46.	53.	61.	71.	82.	84.
48	28.	30.	33.	37.	41.	45.	48.	54.	68.	77.	80.	87.
50	29.	31.	34.	38.	42.	46.	50.	61.	75.	82.	84.	96.
52	30.	32.	35.	39.	43.	47.	51.	68.	76.	81.	82.	92.
54	31.	33.	36.	40.	44.	48.	54.	72.	78.	82.	84.	100.
56	32.	34.	37.	41.	45.	49.	55.	76.	81.	86.	94.	103.
58	33.	35.	38.	42.	46.	50.	56.	78.	83.	88.	98.	108.
60	34.	36.	39.	43.	47.	51.	57.	80.	86.	93.	100.	105.
62	35.	37.	40.	44.	48.	52.	58.	82.	88.	97.	102.	108.
64	36.	38.	41.	45.	49.	53.	59.	84.	90.	100.	105.	110.
66	37.	39.	42.	46.	50.	54.	60.	86.	92.	104.	107.	118.
68	38.	40.	43.	47.	51.	55.	61.	88.	94.	106.	110.	114.
70	39.	41.	44.	48.	52.	56.	62.	90.	96.	108.	114.	118.
72	40.	42.	45.	49.	53.	57.	63.	92.	98.	110.	117.	121.
74	41.	43.	46.	50.	54.	58.	64.	94.	100.	112.	118.	126.
76	42.	44.	47.	51.	55.	59.	65.	96.	102.	114.	120.	128.
78	43.	45.	48.	52.	56.	60.	66.	98.	104.	116.	122.	132.
80	44.	46.	49.	53.	57.	61.	67.	100.	106.	118.	124.	134.
82	45.	47.	50.	54.	58.	62.	68.	102.	108.	120.	126.	136.
84	46.	48.	51.	55.	59.	63.	69.	104.	110.	122.	128.	144.
86	47.	49.	52.	56.	60.	64.	70.	106.	112.	124.	132.	
88	48.	50.	53.	57.	61.	65.	71.	108.	114.	126.	134.	
90	49.	51.	54.	58.	62.	66.	72.	110.	116.	128.	136.	
92	50.	52.	55.	59.	63.	67.	73.	112.	118.	130.	138.	
94	51.	53.	56.	60.	64.	68.	74.	114.	120.	132.	140.	
96	52.	54.	57.	61.	65.	69.	75.	116.	122.	134.	142.	
98	53.	55.	58.	62.	66.	70.	76.	118.	124.	136.	144.	

SIZES.	38	40	42	44	46	48	50	52	54	56	58	60
100	\$81.	\$86.	\$90.	\$95.	\$105.	\$110.	\$117.	120.	\$126.	\$130.	\$141.	\$146.
102	82.	87.	93.	98.	109.	114.	118.	123.	127.	133.	143.	149.
104	84.	88.	96.	101.	111.	117.	120.	126.	130.	142.	146.	151.
106	86.	91.	99.	103.	113.	118.	123.	127.	133.	145.	149.	155.
108	88.	93.	101.	105.	115.	120.	126.	130.	142.	147.	151.	158.
110	90.	95.	102.	107.	118.	122.	127.	133.	145.	150.	155.	160.
112	91.	98.	104.	109.	119.	124.	130.	147.	147.	153.	159.	163.
114	93.	101.	106.	111.	122.	127.	132.	144.	149.	156.	161.	167.
116	95.	102.	108.	114.	123.	128.	141.	146.	151.	159.	164.	169.
118	96.	104.	110.	117.	126.	131.	144.	149.	154.	160.	167.	172.
120	97.	106.	114.	119.	128.	134.	146.	151.	158.	163.	169.	175.
122	104.	109.	116.	121.	137.	142.	149.	154.	160.	167.	171.	178.
124	106.	111.	118.	123.	138.	145.	150.	158.	163.	169.	173.	181.
126	107.	113.	120.	126.	141.	147.	153.	159.	165.	171.	178.	184.
128	109.	115.	122.	128.	144.	149.	156.	161.	168.	174.	181.	188.
130	120.	125.	132.	139.	145.	151.	159.	164.	171.	177.	184.	192.
132	122.	128.	135.	141.	147.	154.	161.	167.	173.	180.	187.	199.
134	124.	130.	137.	144.	150.	156.	163.	169.	177.	183.	190.	200.
136	126.	133.	139.	145.	151.	159.	165.	172.	179.	186.	194.	204.
138	127.	135.	141.	147.	156.	161.	168.	175.	181.	189.	198.	207.
140	130.	137.	144.	150.	158.	163.	171.	177.	184.	192.	201.	210.
142	131.	138.	145.	151.	159.	165.	172.	179.	187.	196.	205.	213.
144	133.	140.	147.	155.	161.	168.	174.	182.	190.	199.	208.	218.
146	136.	142.	151.	156.	163.	171.	178.	185.	193.	203.	212.	222.
148	137.	143.	154.	159.	165.	172.	181.	186.	196.	206.	215.	250.
150	138.	146.	157.	160.	168.	175.	183.	192.	200.	210.	216.	253.

No material invented by man is to be compared with glass in the service it has rendered. It has served alike to bring within the ken of man solar systems too remote for unassisted vision to detect, and to open new worlds of living creatures too minute for their forms to imprint a sensible image upon the delicate mechanism of the eye.

PRICES FOR GENUINE WHITE FRENCH SILVERED PLATES.

SIZES.	62	64	66	68	70	72	74	76	78	80	82	84
64	\$84.	\$86.	\$100.	\$106.	\$114.	\$120.	\$127.	\$131.	\$137.	\$136.	\$164.	
66	87.	91.	04.	110.	117.	123.	130.	141.	151.	160.		
68	89.	100.	06.	114.	120.	127.	134.	147.	156.	163.	167.	\$171.
70	100.	104.	106.	117.	123.	127.	134.	155.	159.	167.	171.	175.
72	104.	106.	110.	120.	123.	127.	130.	159.	162.	171.	175.	179.
74	106.	110.	114.	122.	126.	130.	141.	167.	171.	175.	179.	184.
76	109.	112.	117.	126.	133.	144.	144.	169.	175.	179.	184.	190.
78	112.	117.	119.	128.	133.	144.	147.	172.	179.	189.	196.	196.
80	115.	119.	122.	130.	144.	147.	152.	178.	183.	188.	194.	201.
82	118.	122.	126.	133.	144.	147.	155.	181.	187.	193.	200.	206.
84	120.	124.	128.	133.	144.	147.	159.	185.	191.	204.	211.	217.
86	123.	127.	131.	142.	146.	150.	161.	188.	196.	208.	214.	219.
88	126.	130.	141.	145.	150.	154.	165.	190.	200.	213.	217.	224.
90	130.	134.	145.	149.	153.	158.	169.	195.	205.	219.	225.	230.
92	133.	144.	147.	151.	158.	161.	177.	198.	207.	218.	226.	234.
94	142.	146.	150.	155.	160.	164.	181.	200.	207.	218.	226.	234.
96	145.	149.	153.	159.	163.	168.	184.	205.	212.	219.	227.	235.
98	147.	153.	158.	163.	167.	171.	185.	206.	212.	219.	227.	235.
100	150.	156.	160.	165.	171.	175.	181.	207.	213.	219.	227.	235.
102	153.	159.	164.	169.	173.	179.	189.	208.	214.	219.	227.	235.
104	158.	161.	167.	172.	177.	183.	193.	209.	214.	219.	227.	235.
106	160.	163.	169.	174.	179.	187.	199.	210.	215.	219.	227.	235.
108	163.	168.	173.	179.	185.	191.	204.	215.	219.	219.	227.	235.
110	165.	171.	177.	183.	189.	197.	208.	215.	219.	219.	227.	235.
112	169.	175.	180.	187.	194.	202.	212.	215.	219.	219.	227.	235.
114	172.	178.	184.	191.	199.	207.	217.	215.	219.	219.	227.	235.
116	175.	181.	188.	196.	203.	211.	217.	215.	219.	219.	227.	235.
118	178.	185.	192.	200.	207.	215.	217.	215.	219.	219.	227.	235.

SIZES.	62	64	66	68	70	72	74	76	78	80	82	84
120	\$181.	\$188.	\$196.	\$204.	\$211.	\$220.	\$253.	\$260.	\$267.	\$273.	\$281.	\$287.
122	185.	192.	200.	208.	215.	250.	256.	264.	273.	279.	286.	292.
124	189.	197.	205.	212.	247.	254.	261.	269.	276.	283.	290.	296.
126	192.	201.	208.	217.	251.	259.	265.	273.	281.	287.	294.	302.
128	197.	205.	212.	247.	255.	263.	269.	277.	284.	292.	300.	306.
130	201.	209.	218.	251.	260.	267.	274.	282.	288.	296.	304.	311.
132	204.	213.	249.	255.	264.	270.	279.	286.	294.	301.	309.	315.
134	207.	218.	251.	260.	269.	275.	282.	290.	297.	306.	313.	322.
136	211.	247.	255.	268.	271.	279.	287.	294.	302.	310.	318.	325.
138	217.	251.	260.	268.	274.	283.	291.	300.	306.	314.	323.	336.
140	247.	255.	264.	272.	279.	287.	295.	305.	311.	318.	326.	331.
142	250.	260.	267.	274.	283.	291.	300.	308.	315.	324.	337.	336.
144	254.	263.	270.	279.	287.	295.	304.	311.	319.	328.	331.	401.
146	259.	267.	274.	283.	291.	300.	307.	315.	324.	338.	337.	407.
148	261.	272.	279.	287.	295.	304.	311.	319.	334.	335.	403.	411.
150	265.	273.	282.	291.	299.	308.	315.	325.	338.	339.	409.	418.

BENT GLASS, double extra crystal and polished plate, bent for clarence coaches and store windows. FLUTED and ROUGH plate bent to regular or irregular curves for conservatories, greenhouses, and domes of public buildings. In ordering bent glass, a pattern showing the curve is always desirable, but the radius of the circle, when the work is true, with the height and width of glass, will answer.

BENJAMIN H. SHOEMAKER'S

PRICES CURRENT

OF

American Window Glass.

SIZES.	SINGLE-THICK.				DOUBLE-THICK.		
	Winslow. 1st.	Mullica 2d.	Mercer. 3d.	S. & B. 4th.	Winslow. 1st.	Mullica 2d.	Mercer. 3d.
6 × 8 to 10 × 15	\$10.75	\$9.75	\$9.00	\$8.25	\$16.00	\$14.50	\$13.50
11 × 14 to 12 × 13	11.50	10.25	9.75	8.75	17.25	15.50	14.75
10 × 16 to 14 × 26	12.50	11.50	10.25	9.00	18.75	17.25	15.50
18 × 22	13.25	12.00	10.75	9.50	20.00	18.00	16.25
15 × 26 to 20 × 30	15.75	14.00	12.00	10.25	24.00	21.00	18.00
22 × 30 to 24 × 30	19.75	16.75	13.50	.....	30.00	25.25	20.25
26 × 28 to 24 × 36	20.25	17.50	14.00	.....	31.00	26.50	21.00
26 × 36 to 26 × 44	22.75	20.25	15.50	.....	34.00	30.50	23.25
28 × 44 to 30 × 50	24.00	21.50	16.75	.....	36.00	32.25	25.25
30 × 52 to 30 × 54	27.25	24.00	18.75	.....	41.00	36.00	28.25
30 × 56 to 34 × 56	29.50	26.25	22.00	.....	45.00	39.50	33.00
34 × 58 to 34 × 60	31.50	29.50	25.00	.....	48.00	45.00	37.50

DISCOUNT, ...

This glass is carefully assorted and well packed in boxes of 50 feet each.

The brands W, M, S, as above, are guaranteed not to stain or rust.

NOTE.—The most successful window-glass works in the United States, both as regards quality and quantity, are situated at Winslow, N. J.

BENJAMIN H. SHOEMAKER'S

PRICES CURRENT

OF

German-Silvered Plates.

BY THE BOX.

SIZE.	HALF WHITE.	WHITE.	NO. OF PLATES IN A BOX.
9 × 7			60
10½ × 8½			30
12 × 9			30
14 × 10			30
17 × 10½			30
18 × 12			20
20 × 12			20
22 × 13			18
24 × 14			18
26 × 15			14
26 × 16			14
28 × 16			14
30 × 17			12
30 × 18			12
32 × 18			12
36 × 18			10
40 × 18			8
34 × 20			10
36 × 20			8
40 × 20			8
45 × 20			6
45 × 22			6

SPECIAL PRICE BY THE CASE (GOLD).

An advance of 10 per cent. will be made for all sizes when cut to irregular shapes and patterns.

BENJAMIN H. SHOEMAKER'S

PRICES CURRENT

OF

CRYSTAL PLATE GLASS.

SIZES.	10	11	12	14	16	18	20	22	24
14	\$0.68	\$0.78	\$0.84	.....	.....	.....	.....	.....	.....
16	.78	.88	.96	\$1.16	\$1.40	.....	.....	.....	.....
17	.84	.94	1.02	1.22	1.52	.....	.....	.....	.....
18	.94	1.00	1.10	1.34	1.64	.....	.....	.....	.....
20	1.10	1.20	1.34	1.60	1.96	\$2.32	\$2.82	.....	.....
22	1.26	1.40	1.60	1.90	2.26	2.74	3.10	.....	.....
24	.....	.....	1.76	2.14	2.60	3.00	3.36	.....	.....
26	.....	.....	2.06	2.36	2.84	3.36	3.80	\$4.20	.....
28	.....	.....	.....	2.75	3.28	3.66	4.10	4.56	.....
30	.....	.....	.....	3.26	3.65	4.06	4.50	5.00	\$5.50
32	.....	.....	.....	3.60	4.00	4.50	5.00	5.50	.....
34	.....	.....	.....	3.90	4.50	5.00	5.36	.....	.....
36	.....	.....	.....	4.36	4.80	5.30	5.75	.....	.....
38	.....	.....	.....	4.75	5.25	5.75	7.70	.....	.....
40	.....	.....	.....	5.15	5.60	6.10	.....	.....	.....
42	.....	.....	.....	5.60	6.10	.....	.....	.....	.....

DISCOUNT, ...

DOME LIGHTS.

36 in. diameter	.	.	.	.	plain, each	\$18.00
48 in. "	.	.	.	.	" "	30.00
60 in. "	.	.	.	.	" "	55.00
72 in. "	.	.	.	.	" "	80.00

BENJAMIN H. SHOEMAKER'S

PRICES OF

PORT LIGHTS, DECK LIGHTS, & LENSES.

PORT LIGHTS.

Ship Side Lights, 8 in. diam., $\frac{3}{4}$ in. thick	.	.	.	\$
" " " 9 in. " $\frac{3}{4}$ in. "	.	.	.	.
" " " 10 in. " $\frac{3}{4}$ in. "	.	.	.	.
" " " 12 in. " $\frac{3}{4}$ in. "	.	.	.	.

Other sizes and thicknesses at proportionate rates.

SHIP DECK LIGHTS.

Fluted, $3\frac{1}{2} \times 12$ in.	.	.	.	.	.
" $3\frac{1}{2} \times 10$ in.	.	.	.	.	.

Each size about $1\frac{3}{4}$ in. thick.

BULL'S-EYE LENSES.

Ruby, 4 in. diam., $1\frac{1}{2}$ in. thick	.	.	.	.	.
" 6 in. " $1\frac{1}{2}$ in. "	.	.	.	.	.
" 7 in. " $1\frac{1}{2}$ in. "	.	.	.	.	.
Green, 4 in. " $1\frac{1}{2}$ in. "	.	.	.	.	.
" 6 in. " $1\frac{1}{2}$ in. "	.	.	.	.	.
" 7 in. " $1\frac{1}{2}$ in. "	.	.	.	.	.
White, 4 in. " $1\frac{1}{2}$ in. "	.	.	.	.	.
" 6 in. " $1\frac{1}{2}$ in. "	.	.	.	.	.
" 7 in. " $1\frac{1}{2}$ in. "	.	.	.	.	.

FRENCH AND ENGLISH ROUGH, FLUTED,
ROLLED AND RIBBED

Glass,

FOR

*SKY-LIGHTS, FLOORS, CONSERVATORIES, GRAPERIES,
AND GREENHOUSES.*

$\frac{1}{8}$ in., Fluted	.	.	.	.	.	per sq. ft.	.28
$\frac{3}{16}$ in., "	.	.	.	.	.	" "	.30
$\frac{1}{4}$ in., "	.	.	.	.	.	" "	.37
$\frac{1}{4}$ in., Rough	.	.	.	.	.	" "	.35
$\frac{3}{8}$ in., "	.	.	.	.	.	" "	.45
$\frac{1}{2}$ in., "	.	.	.	.	.	" "	.50
$\frac{3}{4}$ in., "	.	.	.	.	.	" "	1.15
1 in., "	.	.	.	.	.	" "	1.25

Cut to any shape or irregular size. The Fluted Rolled Plate is a very fine article for conservatory roofs, cupola lights, sky-lights, the windows and doors of offices and public buildings, as a substitute for plain ground glass.

SHEET SIZE IN INCHES.

Rough, $\frac{1}{2}$ in. and $\frac{3}{8}$ in.	{	24 × 60, 24 × 72, 24 × 84, 24 × 96, 24 × 108
	{	30 × 60, 30 × 72, 30 × 84, 30 × 96, 30 × 120
	{	36 × 72, 36 × 96, 40 × 72, 48 × 60, 48 × 84
Rough, $\frac{1}{4}$ in.,		24 × 60, 24 × 72, 24 × 84, 30 × 60, 30 × 72
Fluted, $\frac{3}{8}$ in.,		20 × 60, 20 × 70, 24 × 72, 24 × 84, 30 × 80
" $\frac{1}{4}$ in.,		24 × 60, 24 × 72, 30 × 60, 30 × 70, 36 × 72
" $\frac{3}{16}$ in.,		24 × 60, 20 × 50, 24 × 72, 26 × 80, 28 × 76

BENJAMIN H. SHOEMAKER'S

PRICES CURRENT

FOR

GLAZIERS' DIAMONDS.

Plain, Ebony Handle	per doz.	\$36.00
Keyed, " "	"	45.00
Plain, Ivory "	"	65.00
Keyed, " "	"	75.00
Keyed, Pocket Ivory Handle	"	80.00
Patent Pencil Case, Key	"	80.00
Plain, Cocoa Handle	"	48.00
Keyed, " "	"	65.00
Plain, Snakewood Handle	"	80.00
Keyed, " "	"	90.00
Plate, Ebony Handle	each	20.00

DISCOUNT.

Resetting old Sparks	\$1.50 Net.
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GLASS-CUTTERS' RULES.

3 ft.	4 ft.	5 ft.	6 ft.	7 ft.	8 ft.	9 ft.	10 ft.
\$2.00	\$2.60	\$3.25	\$4.00	\$4.50	\$5.25	\$6.50	\$8.00

Glaziers' Rules, about 1½ in. wide, capped, two lines of inches on each side:

3 ft.	4 ft.	5 ft.
\$7.00	\$10.50	\$14.00

Flange, 60 cents each, extra.

BENJAMIN H. SHOEMAKER'S

PRICES CURRENT

FOR

WHITE EMBOSSED FRENCH PLATE GLASS.

PATTERNS ON FOLLOWING PAGES.

Vestibule Door Lights and Transom	.	per sq. ft.	\$6.00
No. 29	.	" "	5.50
" 15	.	" "	5.50
" 1 Basket	.	" "	5.00
" 3 Flowers	.	" "	5.00
" 1 M. Deers	.	" "	5.00
" 2 Lace	.	" "	4.75
" 3 "	.	" "	4.75
" 25	.	" "	6.00

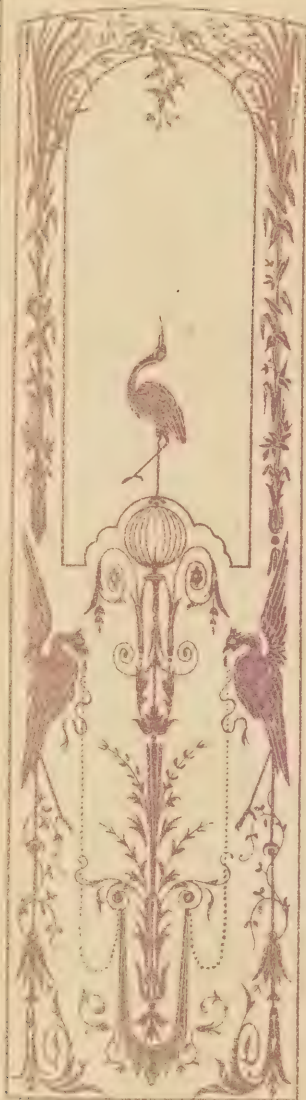
EMBOSSING.

The sheet of glass to be ornamented is first covered with a thin film of wax. The flowers, figures, or other designs are then traced over with an etching needle, leaving those parts of the glass which it traces uncovered.

The plate is now exposed to the vapors of hydrofluoric acid. In a few minutes the exposed portions of the surface of the glass are found deeply corroded or etched, the etching being deeper in proportion to the time it has been exposed to the vapors.



Vestibule Door Lophia & Tansom



Nº 29



Nº 15



No 1 Basket



Nº 1 FLOWERS



Nº 1 M. DEER



Nº 2 Lace



Nº 3 Lace



25-26

ORNAMENTAL

Engraved Glass.

BENJAMIN H. SHOEMAKER'S

PRICES CURRENT

FOR

White Engraved Crystal Glass.

PATTERNS ON FOLLOWING PAGES.

No. 7	.	.	.	.	.	.	per sq. ft.	\$1.25
" 13	.	.	.	.	.	.	" "	2.00
" 17	.	.	.	.	.	.	" "	1.50
" 26	.	.	.	.	.	.	" "	1.50
" 28	.	.	.	.	.	.	" "	1.75
" 31	.	.	.	.	.	.	" "	1.75
" 37	.	.	.	.	.	.	" "	2.00
" 38	.	.	.	.	.	.	" "	2.00

In ordering Engraved Glass, always say whether it is wanted square or cut to shape.

In grinding or cutting white or colored glass for doors and other purposes, a disc of iron, sandstone, or copper, revolving in a lathe, is used, the edge of which is supplied with sand or emery. And for polishing the ornament, a disc of wood or cork is substituted for the former.

RUBY glass is made by the addition of oxide of gold.

BLUE glass by adding oxide of cobalt.

GREEN glass is made by adding copper scales and iron ore, or oxide of chromium for a very fine green.

A rich Gold Topaz color is produced by addition of oxide of uranium.



№ 25



№ 26



№ 17



№ 18



Nº 32



Nº 28



№ 37



№ 13

Glass

FOR

PASSENGER CARS AND LOCOMOTIVES.

BENJAMIN H. SHOEMAKER'S

GLASS

FOR

PASSENGER CARS AND LOCOMOTIVES.

EXTRA HEAVY CRYSTAL GLASS

for Car Windows, very flat and brilliant surface, specially made for this purpose.

FRENCH THICK WHITE PLATE,

about $\frac{1}{4}$ inch in thickness, for Windows and Doors, plain engraved, or embossed with figures and flowers, or likenesses of eminent men, railroad presidents, engineers, etc.

VENTILATOR

and Top-lights of various colors and designs.

(SEE OPPOSITE PAGE.)

PLAIN OBSCURED GLASS

for Water-closets and Wash-rooms.

NAMES,

Numerals, Initials, and Monograms, cut and engraved.

DOUBLE THICK GLASS

of every size and shape for Cars, Locomotives, and Cabs.

HEAD-LIGHTS

for Locomotives, extra thick and flat.

SIGNAL LENSES

and English Signal Colored Glass.

ROUGH PLATE GLASS,

half-inch thick, edges carefully ground and fitted, with HOLES DRILLED for securing the plates together, for Urinals for Depots, Hotels, Hospitals, etc.



10 in. X 18 in.

6 in. X 12 in.

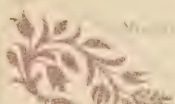
10 in. X 18 in.



12 in. X 18 in.



14 in. X 16 in.



12 in. X 20 in.



18 in. X 36 in.



BENJAMIN H. SHOEMAKER'S

PRICES CURRENT

FOR

ENAMELED GLASS.

PATTERNS ON FOLLOWING PAGES.

No.	36, Clear Enamel	.	.	.	.	per sq. ft.	\$
"	71, " "	.	.	.	.	" "	
"	310, " "	.	.	.	.	" "	
"	311, " "	.	.	.	.	" "	
"	319, " "	.	.	.	.	" "	
"	102, Obscured	.	.	.	.	" "	
"	103, " "	.	.	.	.	" "	
"	135, " "	.	.	.	.	" "	
"	602, Double Etched	.	.	.	.	" "	
"	604, " "	.	.	.	.	" "	

COLORED AND GROUND GLASS.

Flashed Ruby, Single, per sq. ft.	\$	Flashed, Blue,	per sq. ft.	\$
" " Double, " "		" Purple,	" "	
Pot Metal, Green,	" "	" Yellow,	" "	
" " Purple	" "	Pot Metal, Blue,	" "	
Ruby, Lozenge,	" "	" " Yellow,	" "	
Blue, " "	" "	Single Ground,	" "	
Green, " "	" "	Double " "	" "	





3077. 11. 11. 11.





No 311 Clear



Nº 840 Clear



THE END OF THE WORLD



By H.B. Townsend



THE END





Nº 604 Double Etched

ROBERT SHOEMAKER & Co.,
N. E. COR. FOURTH AND RACE STS., PHILADELPHIA.

Wholesale Druggists.

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ENGLISH WHITE LEADS AND COLORS,
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VARNISHES, BRUSHES, ETC.

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WHITE LEAD, ZINC WHITE, COLORS IN OIL,
FOR HOUSE AND CAR PAINTERS' USE.

*Agents for the sale of the celebrated PATENT AVERILL PAINTS
(34 shades), ready for immediate application.*

JOSEPH L. BAILEY & CO.,
PINE IRON WORKS.
GLASGOW IRON WORKS.

MANUFACTURERS OF THE

Pine Brands of Charcoal Boiler Plate.

PINE, BERKS CO., PENNA.

UNITED STATES
Plate Glass Insurance Company
OF PHILADELPHIA.

This Company insures Plate Glass of every description whatever, used in Windows, Show-Cases, Mirrors, etc., in Private Dwellings, Hotels, Public Halls, Theatres, Restaurants, Saloons, Steamboats, etc., and all kinds of Plate Glass in transit.

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